



BRUNO B. F. FAVIERO—THE TECH

This photo as well as others appearing on page 6 were taken at the MIT Museum's 15th annual Friday After Thanksgiving Chain Reaction Event in Rockwell Cage on Friday. Participants linked their individual chain reactions to form a large Rube Goldberg machine that transported a golf ball around the gym.

Massie '93 in U.S. House of Reps.

MIT alum represents Ky., formerly county judge-executive

By Austin Hess
ASSOCIATE NEWS EDITOR

On Nov. 6, Thomas Massie '93 was elected as U.S. Representative for Kentucky's Fourth District. Massie graduated from MIT in 1993 with a Bachelor's degree in Electrical Engineering and also received a Master's in Mechanical Engineering from the Institute in 1996. Massie, a Republican, won the seat after a seven-way primary and has already been sworn in due to his predecessor's early retirement.

Massie came to MIT in 1989 from Vanceburg, Kentucky, and was followed two years later by his future wife, Rhonda Massie '95.

The pair started SensAble Technologies, based on haptics (tactile feedback) systems used in 3D design. Massie won the first \$30,000 Lemelson-MIT Student Prize in 1995 based on this work. SensAble acquired over \$40 million in venture capital funding and developed many important patents over the next few years. But profits eventually declined, and in 2003, Massie and his wife returned to their hometown in Kentucky.

He wanted to stay with SensAble "as long as it made sense," said Massie in a phone interview with *The Tech*, but he and his wife preferred a rural setting to raise their children.

"We built our own house with

our own timber on the farm, and it's powered by solar panels," he said, adding that the decision to live off the grid is consistent with his personal values.

Massie became interested in regional politics after proposed tax increases in his county, and in response, organized local opposition. In 2010, he ran for and won the position of Judge-Executive of Lewis County, vowing to decrease wasteful spending. He ran for the U.S. Representative seat this year vacated by the retiring Geoff Davis and easily won the general election.

His political ideology is "pretty

Massie, Page 7

How prepared are MIT and Cambridge for rising sea levels?

Flood preparation plan in the works

By Ethan A. Solomon
EXECUTIVE EDITOR

MIT's campus as you know it may not exist in 100 years — and if it does, it would likely have a renewed focus on ocean engineering. That's because, according to a *New York Times* analysis of major U.S. cities, much of southern Cambridge would be underwater if ocean levels rise five feet, which is "probable" within 100–300 years. If levels rose 20 feet, over half of Cambridge and a third of Boston would be submerged.

MIT certainly plans to be around in 100 years (the Institute recently sold \$750 million in bonds which mature in 2111, after all). So between then and now, what's going to happen?

Preparing for climate change

Environmental changes linked to global warming — flooding being one of the more dire prospects — are on the minds of local officials, but they have not yet identified concrete steps to prepare the Boston area for rising sea levels.

"Nobody has come out and said, 'In 2012, we recommend that we build seawalls down near the MIT campus,'" said Gerard E. Mahoney, Cambridge Emergency Management head and assistant chief of the Cambridge Fire Department. But, said Mahoney, the gears are in motion to start identifying ways that the Boston metro can protect itself.

The Metropolitan Area Planning Council (MAPC) — which considers urban and environmental planning, energy, governance, and public health in the towns that make up metropolitan Boston — is "working on a plan" for flood preparedness, said Mahoney.

"MAPC is currently working with the City of Cambridge on an update to their Local Natural Hazard Mitigation Plan, which identifies vulnerabilities from natural hazards (flooding, earthquakes, brush fires, etc.) and mitigating actions that a municipality can take to reduce the risk and impact from these hazards," wrote Barry Keppard, a regional

Flooding, Page 7



INFOGRAPHIC BY LEON LIN

Extent of flooding in 100–300 years, according to *The New York Times*. Blue areas would be submerged if oceans rise five feet, covering MIT.

332 to participate in externship program

In 16th year, 260 MIT alumni sponsors offer IAP opportunities for students

By Anne Cai
NEWS EDITOR

Now in its 16th year, MIT's Externship Program will connect 332 undergraduate and graduate students to alumni-sponsored externships this January during Independent Activities Period (IAP). Run by the MIT Alumni Association, the program began offering short winter internships ("externships") in 1997 for 20 to 25 students in its formative years. This year's 332 is a new record, over last year's 294 participants, according to numbers provided by Katie C. Maloney, Director of Parent Association and Student/Alumni Relations.

The first round of matched students were

notified on Nov. 13 and were given until Nov. 15 to accept or decline their match, after which second round offers were announced on Nov. 19. In total, 444 applicants received offers this year, and 332 of those students accepted their offers.

This year 260 alumni sponsors offered externship opportunities through the program, seeking a total of 666 externs for 333 opportunities. Students applied to the opportunities by uploading a resume and a cover letter for each opportunity in which they were interested, for up to three applications per person. A total of 819 students applied, of which 686 were undergraduates and 133 were graduate

This year, there were
444 matches.
332 students accepted
their matches.
There were **1844**
applications since each
applicant can submit **3**
applications

Externships, Page 11

IN SHORT

Spring 2013 subject listings are now online at <http://student.mit.edu/catalog/index.cgi>. Pre-registration for IAP and Spring opens Dec. 3.

Make holiday decorations! The UA and CAC are sponsoring a holiday tree decorating session tomorrow in the student center lobby from 4:30 p.m. to 6 p.m. There will be cider and cookies.

The IAP foreign languages and literatures class lottery signup closes on Monday, Dec. 3 at 5 p.m. Enter the lottery at <http://web.mit.edu/jll/www/iap/>.

It's almost the end of the semester! Check if your classes comply with MIT's rules at http://ua.mit.edu/issues/educational_policy/.

AN OPEN LETTER TO PRESIDENT REIF
Consider engraving new names in Killian Court.
LETTERS, p. 4

KENDALL SQUARE ZONING
MIT to file new zoning petition, debates over new "gateway." **NEWS, p. 10**
BASKETBALL BEATS CURRY
Men's basketball wins 41-27 last week.
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CHAIN REACTION: RUBE GOLDBERG
A closer look at the 15th annual MIT Museum tradition. **PHOTO, p. 6**

A GATHERING OF PEERS
Conferences allow researchers to share ideas and collaborate.
CAMPUS LIFE, p. 5

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Catalonia goes own way from its leader

BARCELONA, Spain — Artur Mas, the president of Catalonia, was hoping to lead Spain’s economically most powerful region toward secession from the rest of the country.

But after an early regional election Sunday that eroded support for his governing party, Mas will have to focus instead on the far less lofty goal of staying in office, possibly by forming an awkward alliance with another separatist party.

Indeed, the decision to call a vote two years ahead of schedule backfired for Mas, who was apparently punished by voters for trying to shift the debate away from his unpopular austerity measures and other pressing economic issues.

By turning the vote into a plebiscite on independence, Mas helped polarize Catalonia’s 7.5 million citizens, with more radical and alternative parties making the clearest gains. Many politicians in Madrid as well as Barcelona welcomed Mas’ unexpected fall from grace. Over the past two months, Mas had shot to the forefront of Spanish politics, as the standard bearer for Catalan sovereignty — and a prime domestic challenge for Spain’s prime minister, Mariano Rajoy.

Overall, separatist parties won 74 of the 135 seats in the Catalan Parliament on Sunday. Of that total, however, Mas and his *Convergencia i Unio* party collected only 50 seats, down from the 62 seats the party won two years ago.

Agreeing to fiscal red lines could make it harder for Mas to meet budget deficit targets set by Madrid, as well as reduce a Catalan debt pile that is by far the largest in the country — about 42 billion euros, or \$54.4 billion, out of a total of 140 billion euros for Spain’s 17 regions.

—Raphael Minder, *The New York Times*

German inferno kills 14 at site employing disabled

BERLIN — A fire broke out Monday in a workshop that employed dozens of mentally and physically disabled people in southwestern Germany, killing 14 and seriously injuring seven others, officials said.

The police were not able to immediately confirm a report by the local media that an explosion in a storeroom on the top floor of the facility in Titisee-Neustadt in the Black Forest region had caused the fire. There was also no information on whether chemicals kept in the storage area had been involved.

The workshop was run by the Caritas charity organization and employed about 120 people with various disabilities in jobs that include metalworking and woodworking, according to Rainer Gantert, a spokesman for Caritas. Another 20 people were employed at the workshop to provide care and assistance, he said.

Some 300 firefighters from across the region and two rescue helicopters were called to the site.

—Melissa Eddy, *The New York Times*

Egypt’s president agrees to limit scope of decree

By David D. Kirkpatrick
THE NEW YORK TIMES

CAIRO — President Mohamed Morsi agreed Monday to scale back a sweeping decree he had issued last week that raised his edicts above any judicial review, according to a report by a television network allied with his party. The agreement, reached with top judicial authorities, would leave most of Morsi’s actions subject to review by the courts but preserve a crucial power: protecting the constitutional council from being dissolved by the courts before it finishes its work.

The Muslim Brotherhood, the Islamist group that sponsored Morsi and his party, announced that it was canceling a major demonstration in support of the president that had been planned for Tuesday.

Cracks appeared in Morsi’s government Sunday over the decree after the justice minister, Ahmed Mekki, began arguing for a retreat, and at least three other senior advisers resigned over the measure. The move had also prompted widening street protests and cries from opponents that Morsi, who already governs without a legislature, was moving toward a new autocracy in Egypt, less than two years after the ouster of the strongman Hosni Mubarak.

With a threatened strike by the nation’s judges, a plunge in the country’s stock market and more street protests looming, Morsi’s administration initially sent mixed messages Sunday over whether it was willing to consider a compromise: A spokesman for the president’s party insisted that there would be no change in his edict,

but a statement from the party indicated for the first time a willingness to give political opponents “guarantees against monopolizing the fateful decisions of the homeland in the absence of the Parliament.”

Mekki, the influential leader of a judicial independent movement under Mubarak and one of Morsi’s closest aides, actively tried to broker a deal with top jurists to resolve the crisis.

The reaction to the decree had presented the most acute test to date of the ability and willingness of Morsi, Egypt’s first freely elected president and a former leader of the Muslim Brotherhood, to engage in the kind of give and take that democratic government requires. But he also must contend with real doubts about the willingness of his anti-Islamist opponents to join him in compromise. Each side is mired in deep suspicion of the other, a legacy of the decades when the Brotherhood survived here only as an insular secret society, demonized as dangerous radicals by most of the Egyptian elite.

“There is a deep mistrust,” said Emad Shahin, a political scientist at the American University in Cairo who studies the Brotherhood. “It is an ugly round of partisan politics, a bone-crushing phase.”

The scale of the backlash against the decree appeared to catch Morsi’s government by surprise.

“In his head, the president thought that this would push us forward, but then it was met with all this inflammation,” Mekki said.

He faulted the president for failing to consult with his opponents before issuing it, but he also faulted the opponents for their own un-

willingness to come to the table: “I blame all of Egypt, because they do not know how to talk to each other.”

Government and party officials maintained that Morsi was forced to claim the expansive new powers to protect the process of writing the country’s new constitution, and that the decree would be in effect only until the charter was in place.

A court of judges appointed under the Mubarak government was widely rumored to be about to dissolve the elected constitutional assembly, dominated by Morsi’s Islamist allies — just as the same court had previously cast out the newly elected Islamist-led Parliament — and the decree issued by Morsi on Thursday gave him the power to stop it.

“I see with all of you, clearly, that the court verdict is announced two or three weeks before the court session,” Morsi told his supporters Friday, referring to the pervasive rumors about the court’s impending action in a fiery speech defending his decree. “We will dissolve the entire homeland, as it seems! How is that? How? Those waywards must be held accountable.”

He said that corrupt Mubarak loyalists were “hiding under the cover of the judiciary” and declared, “I will uncover them!”

But instead of rallying the public to his side and speeding the country’s political transition, as Morsi evidently hoped, his decree has unleashed new instability across the country.

On Sunday, the first day of business here since the decree was issued, the Egyptian stock market fell by about 9.5 percent, erasing more than \$4 billion of value.

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Illinois sets election to replace Jesse L. Jackson Jr.

By Steven Yaccino and Monica Davey
THE NEW YORK TIMES

CHICAGO — A special primary election to replace Jesse L. Jackson Jr. in Congress will be held in February, Gov. Pat Quinn of Illinois announced Monday, as numerous potential candidates were already floating their names in public, calling leaders in search of financial and political backing, and sizing up the competition.

One thing has become clear since Jackson, a Democrat who had held the job for nearly two decades, resigned last week: Congressional seats in Democratic strongholds of this city do not come open very often, and when they do, a line forms fast. Jackson himself had won the seat in a crowded special election in 1995 when then-Rep. Mel Reynolds resigned after being convicted of having sex with a teenage girl. “If someone is thinking of becoming a congresswoman or congressman, this might be their only chance,” said Debbie Halvorson, a former Democratic representative

who ran against Jackson this year and lost, and has announced that she will seek the seat once more Feb. 26, the date Quinn set for the primary. “Whoever gets this will have it forever, they say. That’s why everyone wants to take a chance.” Quinn also announced a general election for March 19, to comply with requirements in state law that the election be held within 115 days. But that date appears likely to change; the governor said that he will urge state legislators to allow the election to be delayed until April 9 — a day when local elections are already being held — as a way to save money. If held on its own, a special general election could cost as much as \$2.5 million, election officials said. Given the Democratic leanings of Jackson’s Second District, which includes parts of Chicago’s South Side and its southern suburbs, many here were focused on the Democratic primary, in which elections have historically been decided. Even as the names of many possible candidates, including members of the City Council and

state legislators, were being tossed around here, there were some calls for a consensus candidate. In a district that was once 68 percent black but that 10-year remapping left 54 percent black, some leaders wondered whether a large number of credible black candidates might split the vote, allowing a nonblack candidate to win the seat for the first time in more than three decades. Others suggested that the Jackson family might ultimately support one candidate over the others, raising that person’s chances. “At the end of the day, you cannot deny the historical impact of the family,” said State Sen. Toi W. Hutchinson, a Democrat who is considering a run, “and you pay respect to that.” Even before Jackson resigned Wednesday, citing his treatment for bipolar disorder and acknowledging a federal criminal investigation into his campaign spending, party leaders had been considering possible replacements, according to Carrie M. Austin, an alderman and a member of the Illinois Democratic Party committee from Jackson’s district.

Politics in play over safety net in deficit talks

By Robert Pear
THE NEW YORK TIMES

WASHINGTON — President Barack Obama’s re-election and Democratic gains in Congress were supposed to make it easier for the party to strike a deal with Republicans to resolve the year-end fiscal crisis by providing new leverage. But they could also make it harder as empowered Democrats, including some elected on liberal platforms, resist significant changes in entitlement programs like Social Security and Medicare. As Congress returned Monday, the debate over those programs, which many Democrats see as the core of the party’s identity, was shaping up as the Democratic version of the higher-profile struggle among Republicans over taxes. In failed deficit-reduction talks last year, Obama signaled a willingness to consider substantial changes in

the social safety net, including a gradual increase in the eligibility age for Medicare and limits in the growth rate of future Social Security benefits. An urgent question hanging over the new round of deficit talks is which of those changes Obama and congressional Democrats would accept today. While a potential change in calculating Social Security increases was part of the talks with Speaker John A. Boehner last year, the White House press secretary, Jay Carney, made clear Monday that the administration was not considering changes to the retirement program as part of the deficit talks. “We should address the drivers of the deficit, and Social Security is not currently a driver of the deficit,” Carney said. Republicans insist that changes in the major entitlement programs be on the table in exchange for their willingness to accept added tax rev-

enue. But Democrats have given no indication they are willing to consider policy changes or savings of the magnitude demanded by Republicans. The underlying dispute highlights a reason the politics of the deficit are so thorny: Even as many voters say they want Washington to reduce the budget deficit, they oppose many of the benefit cuts and tax increases that could help achieve that goal. As the negotiations enter a more crucial phase, influential outside advocacy groups like AARP and the National Committee to Preserve Social Security and Medicare are weighing in, alerting their members to possible changes in the popular programs. In the current negotiations with Congress over deficits and debt, Obama said, he will take a serious look at how to “reform our entitlements” because “health care costs continue to be the biggest driver of our deficits.”

Norquist: Republicans having ‘impure thoughts’ on taxes

Grover Norquist on Monday found a new way of dismissing the handful of Republican lawmakers — including the House majority leader — who are now publicly wavering about his pledge they signed not ever to raise taxes. Norquist, the anti-tax crusader who urges every new lawmaker to sign the pledge, joked on CNN’s “Starting Point” that “we’ve got some people discussing impure thoughts on national television.” But he insisted that the vast majority of Republicans will pay them no mind. “They all said this two years ago, when we were arguing over the debt ceiling limit,” Norquist said in the interview. “We cut spending. We didn’t raise taxes. So other Republicans did not listen.” Norquist’s position as the chief enforcer of the Republican Party’s no-tax stance is under fire in Washington as President Barack Obama pressures Republicans in Congress to reach a compromise that increases taxes on wealthy Americans. Not wanting to be boxed in by Norquist’s pledge, some key lawmakers are saying that they might be willing to raise taxes — in certain circumstances.

The latest to express some doubt about the pledge is Rep. Eric Cantor, the majority leader in the House and a staunch, anti-tax crusader himself. In an appearance on MSNBC’s “Morning Joe” program Monday, Cantor repeated his insistence that Republicans in the House “weren’t elected to raise taxes.” But he also downplayed the pledge as something that wouldn’t necessarily bind his caucus in the House. “A lot has been said about this pledge, and I will tell you when I go to the constituents that re-elected me, it is not about that pledge; it really is about trying to solve problems,” Cantor said.

—Michael D. Shear, The New York Times

Euro finance ministers confront a standoff over Greece

BRUSSELS — Finance ministers from the euro area met Monday for the third week in a row to try and bridge differences over bailouts for Greece that have bitterly divided creditor nations like Germany and the International Monetary Fund. The haggling continues against the background of a financial catastrophe unfolding in Greece, where the economy has shrunk by about one-fifth in three years and unemployment is hovering at around 25 percent. The unrelenting gloom means suffering for the Greek public and also makes it increasingly improbable that the country can pay back its debts in full. Ministers said ahead of the meeting that they had made strides toward reaching a joint position during a teleconference Saturday. “All the parameters of the solution are on the table,” the French finance minister, Pierre Moscovici, said on arriving at the meeting. “We are facing our responsibilities.” But diplomats in Brussels said they expected the meeting to be long and stormy and run late into the night — as did a similar gathering last week — as the parties try to find alternative ways of giving Greece relief in light of opposition by major creditors like Germany and the Netherlands to forgiving some Greek debt. To reach a deal, the IMF may also have to compromise, loosening its budgetary expectations for Greece and accepting that the country will not be able to hit a target of reducing debt to 120 percent of gross domestic product by the end of the decade. For Greece, the immediate goal is unlocking an installment of loans worth 31.5 billion euros (more than \$40 billion) from an international bailout program.

—James Kanter, The New York Times

WEATHER

Chilly weather sticking around for the week

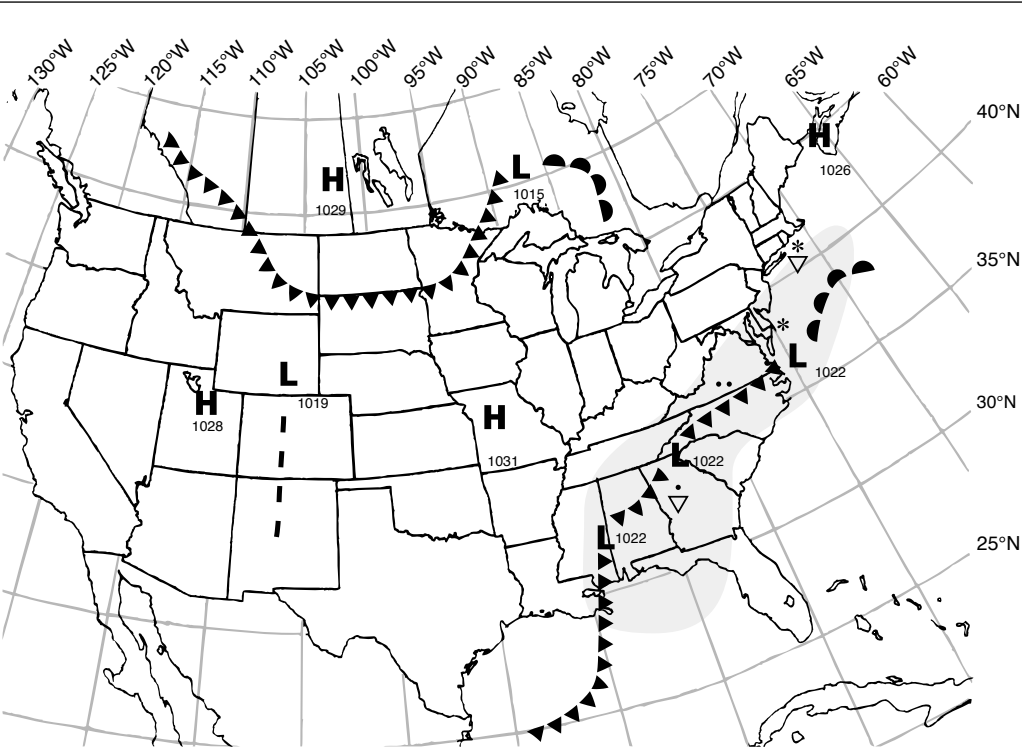
By Roman Kowch
STAFF METEOROLOGIST

Below normal temperatures will be common across our area in the coming days. No significant southerly surface winds are expected this week, keeping cool polar air in place. A low pressure just to our southeast will slowly strengthen tonight just offshore. As it does, we could get some spotty precipitation today and into the over-night hours. Given the cold temperatures some snow could fall

tonight, before the low departs towards Canada on Wednesday. Following the low a high pressure will slowly build off the Carolina coast and bring clear weather back to New England. The high’s southerly flow looks somewhat weak at this point, hence it will keep cool air over the northeastern U.S. through late week. Wind speeds should also remain fairly calm as the high moves closer. So despite cool temperatures, wind chill readings will not be significant even during nighttime hours.

Extended Forecast

Today: Chance of rain showers. High 41°F (5°C). NE wind at 5 mph.
Tonight: Chance of snow showers. Low 30°F (-1°C). N wind at 5-10 mph.
Tomorrow: Mostly cloudy, chance of rain in the morning. High 43°F (6°C). NW wind at 5-10 mph.
Thursday: Mostly sunny. High near 42°F (6°C). Low near 29°F (-2°C). W wind at 5-10 mph.
Friday: Mostly sunny. High near 39°F (4°C). Low near 27°F (-3°C).



Situation for Noon Eastern Time, Tuesday, November 27, 2012

Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols
		Snow	Rain		
H High Pressure	Trough	*	▽		Thunderstorm
L Low Pressure	Warm Front	*	•		
Hurricane	Cold Front	**	••		
	Stationary Front	***	•••		

Compiled by MIT Meteorology Staff and The Tech



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THE SECRET LIVES OF RESEARCHERS

A conference cynic’s conversion

Conferences provide a catalyst for academic innovation

By Emily A. Moberg

While the belief was totally unsubstantiated, I had long believed that conferences were a secret academic conspiracy. Yeah, you really need to go to Hawaii to meet with other scientists and share your work — this is something that just couldn’t be done via internet or phone. What a thinly veiled scheme to take a vacation and hang out with academic buddies! On my least cynical days, I thought it was merely a holdover from the pre-internet era when communication and dissemination of ideas would have been more difficult.

So I was quite surprised as I sat on the plane coming back from Portland, Oregon this fall and reflected on my experience at the Ecological Society of America conference. It had fundamentally changed my expected course of research, made me more excited (than even my normally excited self) about my research, and given me ideas for dozens

of new projects I may never have time to tackle.

But let me back up a bit. First off, the conference was bigger than I had expected. It was hosted in a monstrously large conference center — it took at least five minutes to sprint from end to end (which I did on numerous occasions to catch different talks) — with many small rooms, ballrooms (of course converted into lecture halls by the addition of hundreds of chairs), kiosks, and gymnasium sized rooms full of posters. At any given time, all of these rooms were full of talks and the four-thousand or so attendees had to decide which of the ten plus talks to attend. Twenty minutes later, we’d sprint to a new room and repeat.

The afternoon was full of poster sessions, a more intimate time to ask questions and skim the current research by glancing at pictures. It was also a great chance to form research collaborations. There was a mix of undergraduates, graduate students,

and researchers present who are the rock stars of the ecology field.

None of this experience was new. I knew the basic format. What I was missing is how instructive it is to have so many ideas in the same place. I could go from a talk on how brain size influences extinction risk, to a talk that studies the economic optimality of marine reserves, to talking to a person about zooplankton metacommunities. I could hear about how other people approached problems. I could hear about other problems I didn’t even know existed.

The fast pace doesn’t allow you to focus for too long on one thing, which I found to be a great way to engage creatively. I was forced to continually consider a new topics, and all these new things I was learning stewed and fomented together in my brain. Some of this information made me realize there are better ways to approach my own problems, and in other cases, I thought there were better ways to approach other

people’s problems. On the side of every sheet of my notes there are scribbled sections — “new ideas,” “new project idea,” “new approach?” or diagrams of how I would approach a problem. There are pieces of contact information from people I was introduced to; there are mentions of datasets I didn’t even know existed but that could be useful to use in my own work.

So I’m a convert. Conferences are important. As great as journals, e-mail, Dropbox, and all the other technology is, it hasn’t quite replaced the utility of getting people together to share and talk. If my own experience is typical, I think maybe ideas are the equivalent of rock music for exercise; they get you motivated and going. And what researcher doesn’t need some rocking motivation and fresh ideas sometimes?

This is a new column for students to share their experiences in research. Write to emoberg@mit.edu and cl@tech.mit.edu if you are interested in contributing!

CAMPUS LIFE CAMPUS

The Sloan (Course 15) Course Bidding System (Sloanbid) Bidding Dates for Spring, 2013 Courses

<https://sloanbid.mit.edu>

First time logging in? Use your MIT ID as both your log in and password. Follow instructions on the site to change your password or retrieve lost passwords. Once logged in, make sure and check that your information (i.e. program of study and graduation date) is correct.

Institute-wide bidding for Sloan (Course 15) subjects*:

Opens 9:00 a.m., Thursday, January 3rd, 2013
Closes 5:00 p.m., Thursday, January 10th, 2013

Section Swap Round for changing sections of pre-enrolled Sloan (Course 15) subjects:

Opens 9:00 a.m., Monday, January 14th, 2013
Closes 5:00 p.m., Monday, January 21st, 2013

Waitlist Round for closed Sloan (Course 15) subjects:

Opens 9:00 a.m., Wednesday, January 23rd, 2013
Closes 5:00 p.m., Wednesday, January 30th, 2013

Please contact Scott Alessandro, salissan@mit.edu, if you have questions regarding Sloan (Course 15) Course Bidding.

Successful bids will appear on your Spring Registration and will be posted on the bidding website as of January 14th -- write down your password to check results!

**For 15.037J, 15.053, 15.058, 15.075J, 15.279, 15.301, 15.310, 15.411, 15.501, 15.516, 15.628, 15.668, and 15.812, you can sign up directly through WebSIS starting December 3rd. It is not necessary to bid for these courses.*

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Friday After Thanksgiving Chain Reaction



1

BRUNO B. F. FAVIERO—THE TECH

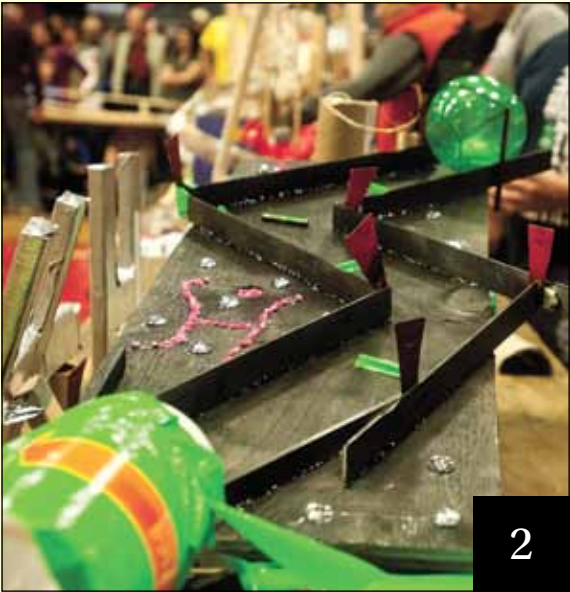
1. A miniature train waits to be knocked over by dominoes as part of the larger chain reaction.

2. A hamster wheel waits to be knocked down as part of a larger chain reaction.

3. Team Rubicon X puts the finishing touches on their part of the larger chain reaction, which involved a cup holding a golf ball riding around the roller coaster.

4. Small metal balls are dropped from the top of a wood structure to move golf balls and further the progress of a golf ball around the entirety of Rockwell Cage.

5. Small metal balls rolled down a wooden ramp onto bells as part of the MIT Museum's 15th annual Friday After Thanksgiving Chain Reaction event. Participants linked their individual chain reactions to form a large Rube Goldberg machine that moved a golf ball around Rockwell Cage.



2



3



4



5

MIT alum is US rep. for Kentucky

Thomas Massie '93, Republican

Massie, from Page 1

Emergency Management Office did respond to an email inquiry yesterday from *The Tech*, but could not provide comment due to illness. Keppard said that MAPC had not yet contacted MIT regarding Cambridge's Natural Hazard Mitigation Plan, but said his agency has plans to do so.

Immediate preparedness

Short of planning for the rise of the oceans themselves, how is Cambridge prepared for sudden, storm-related flooding, like what New York City, Long Island, and the Jersey Shore experienced last month during Hurricane Sandy?

"The City of Cambridge has spent millions of dollars in infrastructure improvements" to help it weather floods, according to Mahoney. "We have had some areas that have been very prone to stormwater flooding," especially areas of filled-in land (like most of the MIT campus).

Those improvements include installation of large, several-thousand-gallon containers underground that capture stormwater, and separating systems that handle sewage from those that handle stormwater.

As far as disaster preparedness goes, Mahoney says the City en-

courages its residents to proactively consider what they need to do to prepare for an event like Hurricane Sandy. "Families and businesses have to plan," he said. "What would a family need for a 24, 48, or 72-hour period to survive?"

Mahoney noted that Cambridge opened two shelters when Hurricane Irene hit in 2011, but only eight people showed up. "In a city such as this, you have a population that wants to be extremely independent. And it's going to take the steps to assert that independence," he said.

MIT and Harvard University present unique challenges to local emergency management officials, said Mahoney. "I always tell people that the universities are very unique: a concentrated population at risk — a city within a city." But they are also a "tremendous resource" for the city.

"The emergency preparedness folks at MIT do a phenomenal job," Mahoney says, drawing a contrast to the perception that relations between MIT and the City are "contentious."

"I have held them up as a model for various private sector institutions. They are very cooperative and a great resource for us to get expert opinions."

much the same" as it was during and before his time at MIT, said Massie.

"My political beliefs were forged with an upbringing in Kentucky and involve self-reliance, personal responsibility, and freedom," he continued. Massie has ties to the Tea Party and endorsements from Ron and Rand Paul.

Although he powers his home with solar technology and participated in the MIT Solar Car Team, Massie does not support subsidies for solar panels. "I think if you leave the market and people to their own decisions, people will make the right decisions," he said. "I'm not in favor of subsidies for any form of energy."

In light of the upcoming “fiscal cliff” negotiations, Massie believes “the government has a spending problem, not a revenue problem.” While he hoped the negotiations would succeed in preventing automatic cuts, he pointed out that “if we can’t even

agree to solve a fraction of this problem, then the cuts should go into effect." The changes in discretionary spending would affect institutions such as MIT, and Massie said he supports a bill proposed by Rand Paul to cut discretionary spending to 2008 levels.

"We need more engineers in Washington D.C. and maybe not so many lawyers. Lawyers are trained to take a position and look for facts to support that position whether it is true or false," said Massie, summarizing a talk at MIT by former New Hampshire governor John Sununu that represents his view of politicians. "Engineers try to collect facts and come up with the answer based on that."

Anyone interest in a career in politics should “get real-world experience first,” Massie added.

While Massie pointed out that he expects both his business experience and MIT economics concentration to be useful in office, the biggest similarity between MIT and Congress so far is that “the first week of each is like drinking from a fire hose.”

A hand-drawn graph illustrating the relationship between 'SADNESS' (Y-axis) and 'ARBY'S SPENDING' (X-axis). The curve is U-shaped, indicating that sadness is minimized at an optimal level of spending. The left side of the curve is labeled 'TOO POOR FOR ARBY'S', and the right side is labeled 'ARBYPHRENIA'.

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Solution, page 11

6x		23+			1-
	6		2-	4	
24x				40x	
30x			6÷		
	10x	15+			6
4		5x			3

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

A four-panel comic strip featuring two stick figures. In the first panel, a stick figure stands on the left, looking at another stick figure on the right who is standing next to a broken mirror on the floor. The second figure is wearing a top hat. In the second panel, the first figure says, "OOPS. GUESS THIS MEANS SEVEN MORE YEARS OF THE ILLUSION THAT MY ACTIONS SOMEHOW INFLUENCE THE INDIFFERENT HAND OF PROBABILITY WHICH GOVERNS OUR LIVES." In the third panel, the first figure says, "PLUS LIKE HALF AN HOUR OF SWEEPING." and the second figure, still wearing the top hat, replies, "NO, I THINK I'LL LEAVE IT." In the fourth panel, the first figure says, "YOU'LL GET GLASS IN YOUR FEET." and the second figure, still wearing the top hat, replies, "ECCLES. 9:2 - ALL THINGS COME ALIKE TO ALL: TO THE CLEAN, AND TO THE UNCLEAN. MY FATE IS AS THESE SHARDS. DUDE, CHILL. IT'S JUST A VANITY MIRROR. ALL IS VANITY MIRRORS." The comic is drawn in a simple, minimalist style with black lines on a white background.

OOPS.
GUESS THIS MEANS SEVEN MORE YEARS OF
THE ILLUSION THAT MY ACTIONS SOMEHOW
INFLUENCE THE INDIFFERENT HAND OF
PROBABILITY WHICH GOVERNS OUR LIVES.

PLUS LIKE HALF AN
HOUR OF SWEEPING.

NO, I THINK
I'LL LEAVE IT.

YOU'LL GET
GLASS IN
YOUR FEET.

ECCLES. 9:2 - ALL THINGS
COME ALIKE TO ALL: TO THE
CLEAN, AND TO THE UNCLEAN.
MY FATE IS AS THESE SHARDS.
DUDE, CHILL. IT'S JUST
A VANITY MIRROR.
ALL IS VANITY MIRRORS.

I'm rubber. You're rubber. We contemplate the reality of our existence in mute, vulcanized horror.

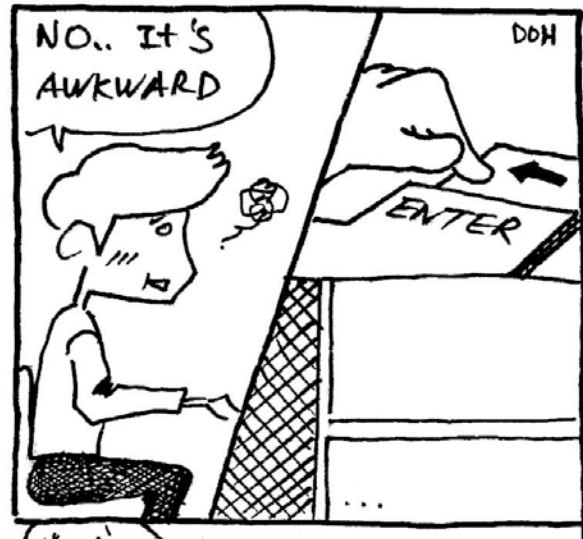
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SKETCHY

by Dohyun Lee

- CHAT



Saturday Stumper by Bruce R. Sutphin

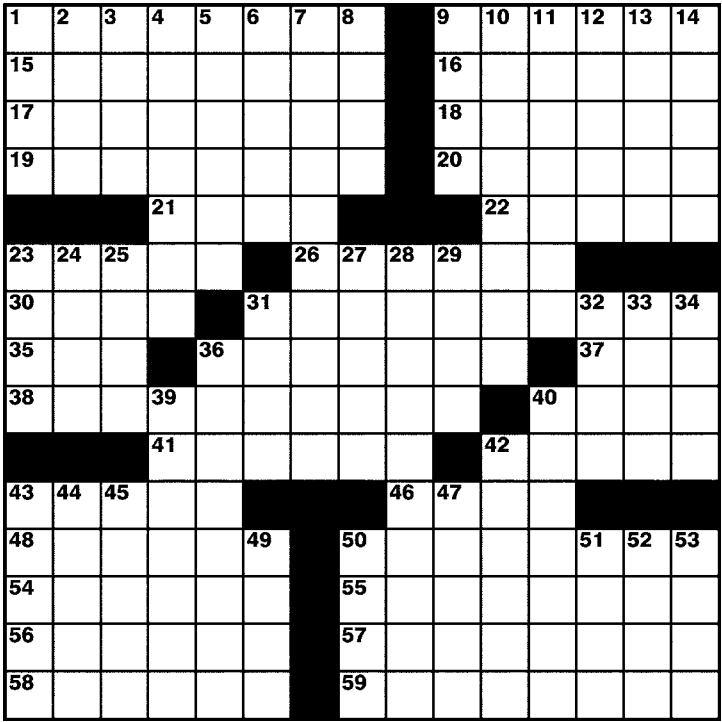
Solution, page 11

ACROSS

- 1 Something tamed with acid
- 9 Pecking order
- 15 Stock answer?
- 16 Desires
- 17 Esthetician offering
- 18 Camper top, perhaps
- 19 What a purse might do
- 20 Try
- 21 Mixed bag
- 22 Close one
- 23 Full
- 26 Taken to heart
- 30 Can it
- 31 Sport with horses
- 35 Annual World Series announcement
- 36 Tops
- 37 It may be melting
- 38 Picnic array
- 40 Radical opponent
- 41 "... cover the multitude of sins" source
- 42 Ancient manuscript volume
- 43 Piercing
- 46 Products of wood carbonization
- 48 Brought in
- 50 Ne'er-do-well
- 54 Too
- 55 Bounty hunter's accessory
- 56 Recent arrival
- 57 Contemptuous behavior
- 58 "Hi-lo" signals
- 59 Strong shot

DOWN

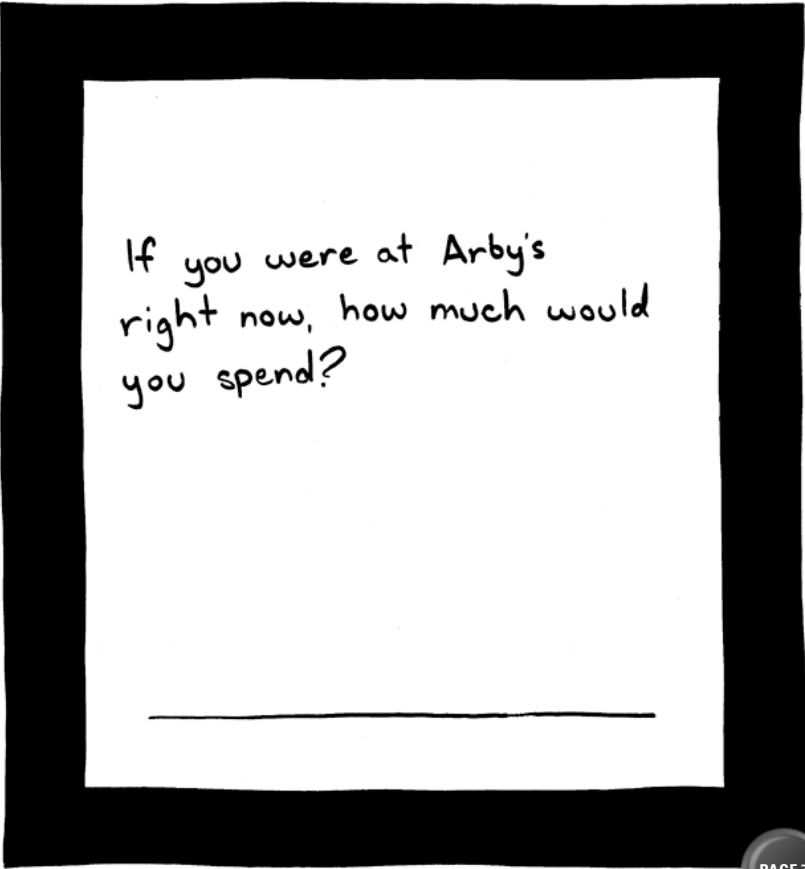
- 1 Parts of roofs
- 2 Warning sign
- 3 Two-note announcement
- 4 Drops the ball
- 5 Author taught by Thoreau
- 6 Art director's tool
- 7 "Might as well"



- 8 Rate __
- 9 How some small cars are bought
- 10 "Don't ask!"
- 11 Google exec since 2001
- 12 Goes out
- 13 Kris and Willie performed at his Kennedy Center Honors
- 14 Artificial fruit flavor, often
- 23 Naval Dept. unit since 1834
- 24 Series with a "Secrets of the Sun" episode
- 25 Tarot suit
- 27 "Some Enchanted Evening" singerw
- 28 Considers
- 29 Sounds of dashes
- 31 Swank's spouse in Amelia
- 32 Transistor descendant
- 33 Most important
- 34 Olympian gods swore oaths on it
- 36 Goodyear partner, 1922-40
- 39 Stevie Wonder's Ellington tribute
- 40 Extra
- 42 Astronomical term coined by Galileo
- 43 Passes over lightly
- 44 One Pillar Pagoda locale
- 45 Choice words
- 47 Space seller
- 49 Additives regulated by the FDA
- 50 __ pay
- 51 Frat letters
- 52 Direct, in Hollywood slang
- 53 Conclusion introducer



S M B C
SATURDAY MORNING BREAKFAST CEREAL
BY ZACH WEINER
[2805]



We managed to get the depression severity assessment down to a single question.

NEWS ANALYSIS

MIT filing a new Kendall Square zoning petition

By John A. Hawkinson
STAFF REPORTER

MIT announced last Tuesday that it would file a new zoning petition for its area of Kendall Square “as soon as possible.” The changes will be presented in advance to the Cambridge Planning Board on the evening of Tuesday, Dec. 4, and the formal filing is expected to soon follow.

MIT is trying to build a new grand gateway to the Institute from the Kendall Square T-stop area, and to support the construction of additional campus buildings as well as commercial office buildings. This process is being run by the MIT Investment Management Company (MITIMCo). The area under consideration is the part of campus east of Ames Street, including the south side of Main Street.

The announcement came in a letter to the faculty from Provost Christopher A. Kaiser PhD ’87. It followed five weeks after the Provost’s faculty task force on the MIT 2030 process produced its report.

While filing the zoning change is consistent with the outlines of the faculty report, some have argued that MIT is moving too fast, with undue pressure from the city.

At the October faculty meeting, Professor Richard de Neufville (ESD) questioned why MIT was intending to file a zoning petition so quickly, when MIT does not clearly understand its own needs. For instance, the report asks MIT to look closely at campus housing needs, especially for graduate students, whose needs are approaching crisis.

The provost declined to answer de Neufville’s question at the meeting, citing confidentiality. But Kaiser’s letter announcing the fil-

ing did say he would be pursuing a study of housing needs.

Also, the Cambridge Planning Board had asked MIT in September to work with it to develop the zoning petition, so that it would be a joint effort — in the words of the board’s chairman: “our petition.” But that has not happened.

Planning Board meeting

The same evening the provost announced MIT’s petition, the Cambridge Planning Board met to discuss general Kendall Square zoning recommendations that would apply to far more than MIT’s areas. This is part of the city’s \$350,000 Kendall-to-Central Square process (K2C2) that looks at zoning changes for all of those areas.

MIT’s original April 2011 conception for Kendall zoning involved tearing down E38 and E39.

At the meeting, the board discussed MIT’s planned presentation. Russell, the chair, said that MIT would be privately presenting a preview of the plan to him and some city staff members this week, in advance of the Dec. 4 preview to the board at large.

Russell said it was important for MIT to preview the changes to the board prior to the formal petition because the laws about amending petitions are very strict, and it would not be possible to make some kinds of changes after the petition is filed without waiting months for the petition to expire.

Russell suggested that MIT’s failure to work with the board was not because of a substantive objection

on MIT’s part, but instead because of procedural and bureaucratic limitations that arise from a conflict with the Institute’s decision-making rules and the laws that govern the planning board’s operations.

Landmark issue

The issue of whether MIT can design a majestic gateway to its campus from the Kendall Square T-stop area without demolishing E38, the MIT Press Building, remains a large open question.

MIT’s original conception for its Kendall zoning, as presented in April 2011, involved tearing down E38 and E39: the MIT Press building and the Rebecca’s Café building. But the Cambridge Historical Commission has expressed a desire to designate those buildings, as well as E48 (the Kendall clock tower building), as landmarks, preserving their historical appearance.

MIT has repeatedly said it will be trying to see if it can preserve those buildings while still creating a “significant eastern gateway.”

Kaiser said MIT will launch a “participative conceptual design process” to examine the gateway area, and that MIT would consider options with and without E38 and E39.

The buildings have been characterized as hard to maintain, and their floors are different heights, making it difficult to connect them to each other, or to other buildings. Preserving them could severely limit MIT’s future development.

But pressure seems to be mounting for MIT to not fight to keep those buildings as landmarks.

A proposal to allow MIT to transfer its development rights for landmarked buildings was presented to the planning board by Iram Farooq, who leads the K2C2 process for the

city’s Community Development Department. It would permit MIT to transfer the development rights it would normally have for those buildings onto other areas within its zoning district. That is, that MIT would be given an incentive to retain E38, E39, and E48 as landmarks by allowing MIT to build higher and denser on other parcels.

When asked why she favored retaining landmark status, rather than being neutral, Farooq said in an email that the city staff “think retaining the assemblage of three historic buildings on Main St. is an important element of grounding Kendall Square in its history.”

MIT is trying to build a new grand gateway to the Institute from the Kendall T-stop area.

Farooq said, “it would help enhance the creation of an exciting urban gateway on the Kendall Square side of the MIT campus, better connecting the campus to the rest of the city.”

When most of the old industrial buildings in the Kendall Square area were leveled during urban renewal in the 1960s, Farooq said, “planners thought they would be able to create great spaces if only they could get rid of those pesky old buildings that were in the way. In most instances that has not turned out to be the case and much richer environments have been fostered where development occurred in the context of an existing historic context.”

With the city advocating for landmark designation and incentivizing it, it’s not clear who is lobbying against that designation. The faculty 2030 task force appears to have adopted a wait-and-see attitude, and MITIMCo has stated it will try to preserve them if it can while building its gateway. But no one seems to be concerned that those building are hard to maintain and do not integrate well with the rest of the campus.

The provost’s letter also said that MIT would retain the three buildings in its zoning proposal, but this is misleading. MIT has agreed that its zoning proposal will not specify the destruction of the buildings, but it is not the nature of zoning proposals to destroy or preserve individual buildings. Instead, zoning specifies parameters

of a district, such as the maximum height, the maximum floor area ratio, required kinds of building and housing units, additional payments for parks and transportation funds, etc.

Charles Sullivan, executive director of the Cambridge Historical Commission, said that the Commission had informally agreed to defer voting to designate the three buildings as landmarks until the zoning process completes. Previously, the Commission had formally agreed to defer action through Jan. 8, 2013.

General zoning provisions

Beyond the MIT specifics, the planning board also discussed general Kendall Square zoning changes at its Oct. 30 meeting. Farooq presented a memo detailing changes to six categories: active ground floor use, middle-income housing, innovation office space, community investments, sustainability, and parking.

The middle-income housing zoning changes engendered a healthy discussion. Under the proposal, developers who wish to build residential towers greater than 250 feet in height would need to devote 25 percent of the space above 250 feet to middle-income housing. Because such buildings would be limited to 300 feet, that comes out to about three percent of the space in the building, which could be distributed anywhere in the building.

Russell, the chairman, pointed out that there was a huge mismatch between the three percent supply and the number of middle income workers working in Kendall Square which he estimated to be between 20 and 50 percent. Russell seemed very concerned by this, and the city’s affordable housing expert, Chris Cotter, agreed. “There is certainly a supply and demand mismatch,” Cotter said.

But neither the board nor the city staff presenting appeared to have any suggestions for how to improve the amount of middle income housing without disincentivizing developers from building housing. Because there is such an extreme shortage of housing and a fear that developers will build commercial properties instead of housing properties, concerns about disincentives are very real.

Russell said after the meeting that he did not have the answers either, but was concerned that the affordable housing proposal was too modest.

MIT ASIAN DANCE TEAM

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Finance externships are most popular

332 undergraduate and graduate students will work with alumni in January; cities include San Francisco, New York, Boston

Externships, from Page 1

students. These students submitted a total of 1844 externship applications, for an average of about 2.25 applications per student. Records were also set for the numbers of applicants and applications, surpassing last year's 758 applicants (636 undergraduates and 122 graduates) and 1807 applications.

Externships are a great way to try new things, said Allison Z. Koenecke '14, who has participated in an externship through MIT's program every IAP in her time at MIT thus far and accepted an externship offer at NERA Economic Consulting for this coming January. She sees the program as an opportunity to sample a number of areas, hav-

ing previously worked at Autotegrity in data analytics and the U.S. Department of Energy.

Finance positions were especially popular, being four of the top five most popular postings.

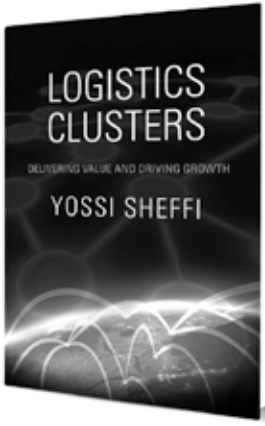
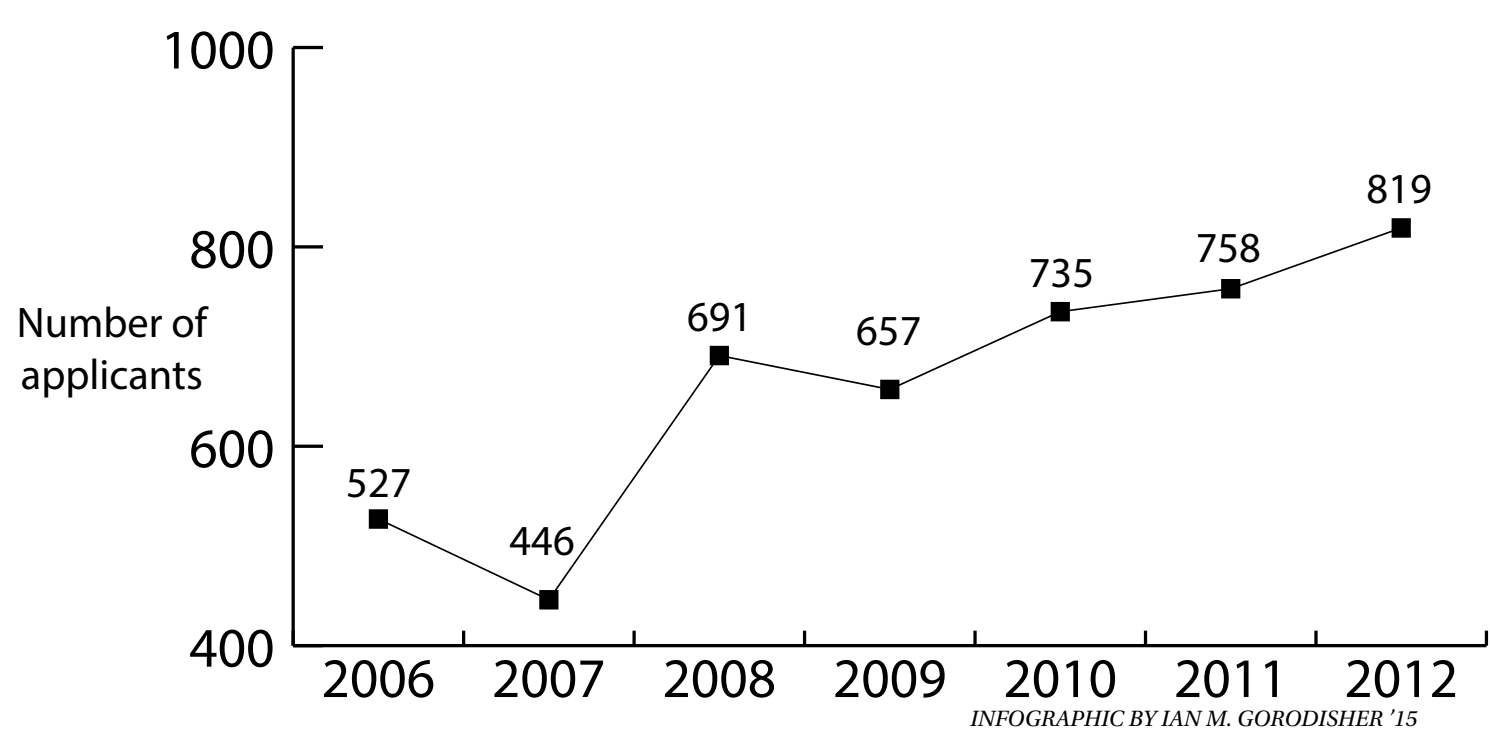
Yuqing Zhang '16, who accepted an offer to be an assistant trader extern at Jane Street, hopes to get "a better picture of what a career in trading entails and whether it's right for me."

Positions in the financial industry were especially popular, as has been the trend for the last several years, taking four spots of the top five most

popular postings. Jane Street Capital's assistant trader position topped the list, receiving 65 applications, followed by 43 for J.P. Morgan's investment banking position, 40 for Oliver Wyman's financial services management consultant position, 38 for Quora's software engineer position, and 34 for Five Rings Capital's trader position.

For career comparisons, the Class of 2012 Senior Survey released over the summer indicated a similar trend. Of the respondents, 39.1 percent said they expected to be employed either full-time or part-time — of those, engineering, computer science/technology, consulting, and financial services encompassed the largest percentages, with 25.8 percent, 17.4 percent, 15.1 percent, and 10 percent respectively.

Number of MIT Externship Applicants by year



Yossi Sheffi

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Dr. Yossi Sheffi is Elisha Gray II Professor of Engineering Systems at MIT and Director of the MIT Center for Transportation and Logistics.

"Logistics Clusters" is published by the MIT Press, 2012.

logisticsclusters.mit.edu



Solution to Sudoku

from page 8

8	7	4	5	2	9	3	6	1
6	3	5	1	7	8	4	9	2
9	2	1	6	3	4	8	7	5
1	4	8	9	5	7	2	3	6
5	9	3	8	6	2	1	4	7
2	6	7	3	4	1	9	5	8
4	1	2	7	9	5	6	8	3
7	8	6	4	1	3	5	2	9
3	5	9	2	8	6	7	1	4

Solution to Techdoku

from page 8

3	1	6	4	5	2
2	6	5	3	4	1
6	4	3	1	2	5
5	3	2	6	1	4
1	5	4	2	3	6
4	2	1	5	6	3

Solution to Crossword

from page 9

HOTS	SALSA	KISS	ME
IMALL	OUT	ITCHES	
PEDICURE	TSHIRT		
SNAP	OPEN	SAMPLE	
STEW	MISER		
UNCUT	HEEDED		
SOUP	GYMNASTICS		
MVP	ZENITHS	POT	
CASSEROLES	TORY		
IPETER	CODEX		
SHARP	TARS		
LANDED	BADAPPLE		
UNDULY	AIRTASER		
ROOKIE	SNEERING		
SIRENS	ESPRESSO		

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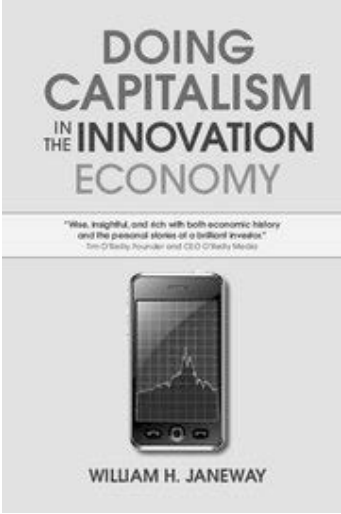


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SPEAKER:

William H. Janeway

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